

Allison.ST25

SEQUENCE LISTING

<110> Board of Trustees Operating Michigan State University
Allison, Richard

<120> Expression of Recombinant Transgene

<130> 6550-000072

<150> US 60/485073

<151> 2003-07-03

<160> 15

<170> PatentIn version 3.2

<210> 1

<211> 26

<212> DNA

<213> Cowpea chlorotic mottle virus

<400> 1

aagtggatcc cctcttgtgc ggctgc

26

<210> 2

<211> 16

<212> DNA

<213> Cowpea chlorotic mottle virus

<400> 2

actccaaaga gttctt

16

<210> 3

<211> 835

<212> DNA

<213> Cauliflower mosaic virus

<400> 3

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ccaagaaggt taaagatgca gtcaaaagat tcaggactaa ctgcatcaag aacacagaga 180
aagatatatt tctcaagatc agaagtacta ttccagtatg gacgattcaa ggcttgcttc 240
acaaaccaag gcaagtaata gagattggag tctctaaaaa ggtagttccc actgaatcaa 300
aggccatgga gtcaaagatt caaatagagg acctaacaga actcgccgta aagactggcg 360
aacagttcat acagagtctc ttacgactca atgacaagaa gaaaatcttc gtcaacatgg 420
tgagcacga cacacttgtc tactccaaaa atatcaaaga tacagtctca gaagacaaaa 480
gggcaattga gacttttcaa caaagggtaa tatccggaaa cctcctcgga ttccattgcc 540
cagctatctg tcactttatt gtgaagatag tggaaaagga aggtggctcc taaaaatgcc 600
atcattgcga taaaggaaag gccatcgttg aagatgcctc tgccgacagt ggtcccaaag 660
atggacccc acccacgagg agcatcgtag aaaaagaaga cgttccaacc acgtcttcaa 720

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agcaagtgga ttgatgtgat atctccactg acgtaaggga tgacgcacaa tcccactatc 780
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<210> 4
 <211> 581
 <212> DNA
 <213> Encephalomyocarditis virus

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 gggcccggaa acctggccct gtcttcttga cgagcattcc taggggtctt tcccctctcg 180
 ccaaaggaat gcaaggctctg ttgaatgtcg tgaaggaagc agttcctctg gaagcttctt 240
 gaagacaaac aacgtctgta gcgacccttt gcaggcagcg gaacccccca cctggcgaca 300
 ggtgcctctg cggccaaaag ccacgtgtat aagatacacc tgcaaaggcg gcacaacccc 360
 agtgccacgt tgtgagttgg atagttgtgg aaagagtcaa atggctctcc tcaagcgtat 420
 tcaacaagg gctgaaggat gcccagaagg taccctattg tatgggatct gatctggggc 480
 ctcggtgcac atgctttaca tgtgtttagt cgagggttaa aaaacgtcta ggccccccga 540
 accacgggga cgtggttttc ctttgaaaaa cacgatgata a 581

<210> 5
 <211> 581
 <212> RNA
 <213> Encephalomyocarditis virus

<400> 5
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 gggcccggaa accuggcccu gucuucuuca cgagcauucc uaggggucuu uccccucucg 180
 ccaaaggaau gcaaggucug uugaaugucg ugaaggaagc aguuccucug gaagcuucuu 240
 gaagacaaac aacgucugua gcgaccuuu gcaggcagcg gaacccccca ccuggcgaca 300
 ggugccucug cggccaaaag ccacguguau aagauacacc ugcaaaggcg gcacaacccc 360
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 ucaacaagg gcuagaaggau gcccagaagg uaccccauug uaugggaucu gaucuggggc 480
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 accacgggga cgugguuuc cuuugaaaaa cacgaugaua a 581

<210> 6
 <211> 581
 <212> DNA

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<213> Encephalomyocarditis virus

<400> 6

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acaatggggg accttctggg catccttcag ccccttggtg aatacgcttg aggagagcca      180
tttgactctt tccacaacta tccaactcac aacgtggcac tggggttgtg ccgcctttgc      240
aggtgtatct tatacacgtg gcttttggcc gcagaggcac ctgtcgccag gtgggggggt      300
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aggaatgctc gtcaagaaga cagggccagg tttccgggcc ctacattgc caaaagacgg      480
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<210> 7

<211> 581

<212> RNA

<213> Encephalomyocarditis virus

<400> 7

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acaauggggg accuucuggg cauccuucag ccccuuguug aauacgcuug aggagagcca      180
uuugacucuu uccacaacua uccaacucac aacguggcac uggguugug ccgccuuugc      240
agguguaucu uauacacgug gcuuuuggcc gcagaggcac cugucgccag gugggggggu      300
ccgcugccug caaagggucg cuacagacgu uguuugucuu caagaagcuu ccagaggaac      360
ugcuuccuuc acgacauuca acagaccuug cauuccuuug gcgagagggg aaagaccccu      420
aggaauvcuc gucaagaaga cagggccagg uuuccgggcc cucacauugc caaaagacgg      480
caauauggug gaaaauca uauagacaaa cgcacaccgg ccuuauucca agcggcuucg      540
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<210> 8

<211> 242

<212> DNA

<213> Cowpea chlorotic mottle virus

<400> 8

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ggttttactc cttgaacctc tcggaagaac tctttggagt tcgtaccagt acctcacata      180

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cc 242

<210> 9
<211> 242
<212> RNA
<213> Cowpea chlorotic mottle virus

<400> 9
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gguuuuacuc cuugaacccu ucggaagaac ucuuuggagu ucguaccagu accucacaua 180
gugagguaau aagacuggug ggcagcgccu agucgaaaga cuaggugauc ucuaaggaga 240
cc 242

<210> 10
<211> 242
<212> DNA
<213> Cowpea chlorotic mottle virus

<400> 10
ggctctcctta gagatcacct agtctttcga ctaggcgctg cccaccagtc ttattacctc 60
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cccaagggca gctcaatcct cttgtaaaag gaagacgttt caacaacgat taccgtttta 180
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ct 242

<210> 11
<211> 242
<212> RNA
<213> Cowpea chlorotic mottle virus

<400> 11
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cccaagggca gcucaauccu cuuguaaaag gaagacguuu caacaacgau uaccguuuua 180
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cu 242

<210> 12
<211> 12
<212> DNA
<213> Artificial

<220>
<223> artificial sequence used to show antisense relationship of a gen

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and IRES to a promoter and viral 3' UTR

<220>
<221> misc_feature
<222> (1)..(3)
<223> n is a, c, g, or t

<400> 12
nnncatggaa tt

12

<210> 13
<211> 12
<212> DNA
<213> Artificial

<220>
<223> complement of artificial sequence used to show antisense
relationship of a gene and IRES to a promoter and viral 3' UTR

<220>
<221> misc_feature
<222> (10)..(12)
<223> n is a, c, g, or t

<400> 13
aattccatgn nn

12

<210> 14
<211> 12
<212> RNA
<213> Artificial

<220>
<223> Transcript of RNA polymerase

<220>
<221> misc_feature
<222> (1)..(3)
<223> n is a, c, g, or u

<400> 14
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12

<210> 15
<211> 12
<212> RNA
<213> artificial

<220>
<223> complement of transcript of RNA polymerase

<220>
<221> misc_feature
<222> (10)..(12)
<223> n is a, c, g, or u

<400> 15
aaauccaugn nn

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